AIR CONDITIONER MANUFACTURER

Turbo air

Inverter One- One Split-Type

ROOM AIR CONDITIONER

OWNER'S MANUAL

MODEL #: TAS-09EHN
TAS-12EHN
TAS-18EHN
TAS-24EHN

Please read this manual carefully and thoroughly before operating the unit.
If you still have any difficulties or problems, consult your dealer for help or Turbo Air Conditioning Corp.
Please keep this manual handy.

W1

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⚠ CAUTION

- Contact the authorized installer for installation of this unit.
- Contact an authorized service technician for repair or maintenance of this unit.
- This appliance is not intended for use by persons(including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by persons responsible for their safety.
- Young children should be supervised to ensure that they do not play with the air conditioner.
- If the power cord is to be replaced, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.

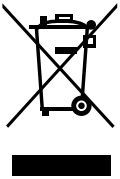
When using this air conditioner in the European countries, please read the following information:

DISPOSAL: Do not dispose of this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

It is prohibited to dispose of this appliance in domestic household waste.
For disposal, there are several possibilities:

A) The municipality has established collection systems, where electronic waste can be disposed of at least free of charge to the user.
B) When buying a new product, the retailer will take back the old product at least free of charge.
C) The manufacturer will take back the old appliance for disposal at least free of charge to the user.
D) As old products contain valuable resources, they can be sold to scrap metal dealers.

Wild disposal of waste in forests and landscapes endangers your health when hazardous substances leak into the ground-water and find their way into the food chain.



SAFETY PRECAUTIONS

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications.

⚠WARNING	This symbol indicates the possibility of death or serious injury.
⚠ CAUTION	This symbol indicates the possibility of injury or damage to property.

■ Meanings of symbols used in this manual are as shown below.

⃠	**Never do this.**
!	**Always do this.**

⚠ WARNING

Connect with the power properly.
- Otherwise, it may cause electric shock or fire due to excess heat generation.

Do not operate or stop the unit by switching on or off the power.
- It may cause electric shock or fire due to heat generation.

Do not damage or use an unspecified power cord.
- It may cause electric shock or fire.

Do not modify power cord length or share the outlet with other appliances
- It may cause electric shock or fire due to heat generation.

Do not operate with wet hands or in damp environment.
- It may cause electric shock.

Do not direct airflow at room occupants only.
- This could damage your health.

Always ensure effective grounding.
- No grounding may cause electric shock.

Do not allow water to run into electric parts.
- It may cause failure of machine or electric shock.

Always install circuit breaker and a dedicated power circuit.
- No installation may cause fire and electric shock.

Disconnect the power if strange sounds, smell, or smoke comes from it.
- It may cause fire and electric shock.

Do not drink water drained from air conditioner.
- It contains contaminants and could make you sick.

Do not open the unit during operation.
- It may cause electric shock.

Use the correctly rated breaker or fuse.
- There is risk of fire or electric shock.

Do not use the power cord close to heating appliances.
- It may cause fire and electric shock.

Do not disassemble or modify unit.
- It may cause failure and electric shock.

Ventilate room before operating air conditioner if there is a gas leakage from another appliance.
- It may cause explosion, fire and burns.

Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.
- It may cause explosion or fire.

⚠ CAUTION

⊘ When the air filter is to be removed, do not touch the metal parts of the unit.

- It may cause an injury.

⊘ Do not put objects like thin rods into the panel of blower and suction side.

- The high-speed fan inside may cause danger.

ⓘ Ventilate the room well when used together with a stove, etc.

- An oxygen shortage may occur.

ⓘ When the unit is to be cleaned, switch off, and turn off the circuit breaker.

- Do not clean unit when power is on as it may cause fire, electric shock or injury.

⊘ Do not put a pet or house plant where it will be exposed to direct air flow.

- This could injure the pet or plant.

⊘ Do not use for special purposes.

- Do not use this air conditioner to preserve precision devices, food, pets, plants, and art objects. It may cause deterioration of quality, etc.

ⓘ Stop operation and close the window in storm or hurricane.

- Operation with windows opened may cause wetting of indoor and soaking of household furniture.

⊘ Do not place obstacles around air-inlets or inside of air-outlet.

- It may cause failure of appliance or accident.

ⓘ Turn off the main power switch when not using the unit for a long time.

- It may cause failure of product or fire.

⊘ Do not use strong detergent such as wax or thinner. Use a soft cloth for cleaning.

- Appearance may be deteriorated due to change of product color or scratching of its surface.

ⓘ Ensure that the installation bracket of the outdoor appliance is not damaged due to prolonged exposure.

- If bracket is damaged, there is concern of damage due to falling of unit.

ⓘ Always insert the filters securely. Clean filter once every two weeks.

- Operation without filters may cause failure.

⊘ Do not place heavy object on the power cord and take care so that the cord is not compressed.

- There is danger of fire or electric shock.

ⓘ Use caution when unpacking and installing. Sharp edges could cause injury.

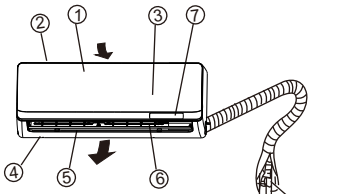
ⓘ If water enters the unit, turn the unit off and disconnect the power , contact a qualified service technician.

Do not clean the air conditioner with water.

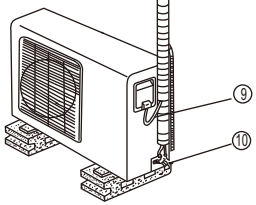
- Water may enter the unit and degrade the insulation. It may cause an electric shock.

OPERATING INSTRUCTIONS

Indoor unit



Outdoor unit



Indoor unit

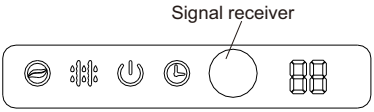
1. Front panel
2. Air inlet
3. Air filter
4. Air outlet
5. Horizontal air flow grille
6. Vertical air flow louver(inside)
7. Display panel

NOTE: The actual shape of the indoor unit you purchased may be slight different on front panel and display window.

Outdoor unit

8. Connecting pipe
9. Connecting cable
10. Stop valve

LED Display Window



NOTE:
All the pictures in this manual are for explanation purpose only. Your air conditioner may be slightly different. The actual shape will prevail.

Indication lamp on LED Display window

ION indication lamp(optional function)
This lamp illuminates when Clean Air feature is activated.

DEFROST indication lamp
(Enabled on cooling & heating models only): Lights up when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.

OPERATION indication lamp
This lamp illuminates when the air conditioner is in operation.

TIMER indication lamp
Lights up during Timer operation.

Temperature indicator
- Displays the temperature settings when the air conditioner is operational.
- Displays the malfunction code.

Special functions

Refrigerant Leakage Detection
With this new technology, the dipsplay area will appear 'EC' and the indication lamps continue flashing when the outdoor unit detects refrigerant leakage.

Louver Angle Memory Function(optional):
Within the scope of safety angle, it will memorize the open angle of horizontal louver. If it exceeds, it will memorize the boundry of safety angle. In the following circumstances, it will return to standard angle: 1) pressing the turbo or manual control button, 2)unplug and then plug in the machine. So we strongly suggest that the open angle of the horizontal louver should not be set too small, in case the condensed water forms and drops from the horizontal louver.

SELF CLEAN functionJOptionalJ

- Function used after the Shut Down of cooling operation to clean the Evaporator and keep it as fresh for the next operation.
- The unit will operate as following sequence : FAN ONLY mode at Low fan speed--Heating operation with LOW fan speed(applicable to cooling & heating modles only) ---FAN ONLY operation--Stop Operation---Turn off.

Note:

- This function is only available under COOL(AUTO COOL, FORCED COOL) and DRY mode.
- Before select the function, it is recommended to run the air conditioner under Cooling operation for about half an hour. Once the Self Clean function is activated, all TIMER setting will be cancelled.
- During Self Clean operation, when press the SELF CLEAN button on the remote controller again will stop the operation and turn off the unit automatically.

CLEAN AIR function(on some models)
This air conditioner is equipped with ionizer or Plasma Dust Collector(Depending on specific configuration of the model). With the anions generated by Ionizer, the air circulation of the air conditioner fills the room with refreshing, natural and healthy air. The Plasma Dust Collector generates a high voltage ionization zone, through which the air is converted to plasma. Inside the air most of the dust, smoke, and pollen particles are captured by the electrostatic filter.

Anti-mildew functionJ**Optional**J
When turns off the unit on COOL, DRY, AUTO (Cool) mode, the air conditioner will continue operating for about 7-10 minutes (depending on models) with soft wind. This will help to dry up the condensed water inside the evaporator, and prevent the breeding of mildew. Under Anti-mildew operation, do not restart the air conditioner until the unit is completely off.

Vertical swing functionJ**Optional**J
After the AC starts up, users can control the vertical louver swing by the remote controller.

OPERATING INSTRUCTIONS

NOTE: This manual does not include Remote Controller Operations, see the <<Remote Controller Instruction>> packed with the unit for details.

Operating temperature

Mode / Temperature	Cooling operation	Heating operation	Drying operation
Room temperature	≥17℃(62℉)	≤30℃(86℉)	＞10℃(50℉)
Outdoor temperature	0℃~50℃ (32℉~122℉)	-15℃~30℃ (5 ℉~ 86 ℉)	0℃~50℃ (32℉~122℉)
	(-15℃~ 50℃/ 5℉~122℉: For the models with low temperature cooling system)		

NOTE:

1. Optimum performance will be achieved within these operating temperatures.If air conditioner is used outside of the above conditions, certain safety protection features might come into operation and cause the unit to function abnormally.
2. Room relative humidity less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may attract condensation. Please sets the vertical air flow louver to its maximum angle (vertically to the floor), and set HIGH fan mode.

Suggestion: For the unit adopts an Electric Heater, when the outside ambient temperature is below 0°C(32°F), we strongly recommend you to keep the machine plugged in order to guarantee it running smoothly.

Manual operation

Manual operation can be used temporarily in case the remote controller is disable or the unit requires maintenance.

NOTE: The unit must be turned off before operating the manual control button. If the unit is operational, continue pressing the manual control button until the unit is off.

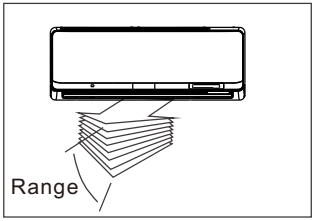
① Open and lift the front panel up to an angle until it remains fixed with a clicking sound. For some models, please use suspension bars to prop up the panel.

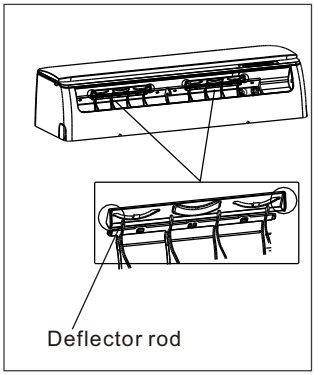
② One press of the manual control button will lead to the forced AUTO operation. If press the button twice within five seconds, the unit will operate under forced COOL operation.

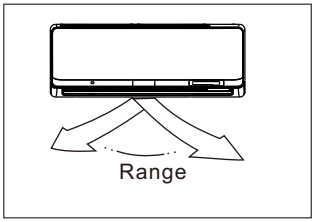
③ Close the panel firmly to its original position.

CAUTION:
This button is used for testing purposes only. You had better not choose it.
To restore the remote controller operation, use the remote controller directly.

Airflow direction control







Adjust the air flow direction properly otherwise it might cause discomfort or cause uneven room temperatures.
Adjust the horizontal/vertical louver using the remote controller. For some models, the vertical louver can only be adjusted manually.

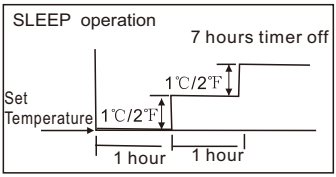
To set the horizontal/vertical air flow direction

- Perform this function while the unit is in operation.
- Use the remote controller to adjust the air flow direction. The vertical/horizontal louver changes 6 degree in angle for each press, or swing up and down automatically. Please refer to the ''REMOTE CONTROLLER OPERATION MANUAL'' for details.
- For some models, the vertical louver can only be adjusted manually. Move the deflector rod manually to adjust the air flow in the direction you prefer.
  IMPORTANT:Do not put your fingers into the panel of blower and suction side.The high-speed fan inside may cause danger.

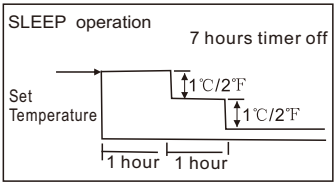
⚠ CAUTION

- Do not operate the air conditioner for long periods with the air flow direction set downward in cooling or dehumidifying mode. Otherwise, condensation may occur on the surface of the horizontal louver causing moisture to drop on to the floor or on furnishings.
- When the air conditioner is started immediately after it was stopped, the horizontal louver might not move for approximately 10 seconds.
- Open angle of the horizontal louver should not be set too small, as COOLING or HEATING performance may be impaired due to too restricted air flow area.
- Do not move the horizontal louver manually, otherwise the horizontal louver will be out of sync. Please cease operating, unplug power for a few seconds,then restart the air conditioner.
- Do not operate unit with horizontal louver in closed position.

How the air conditioner works



Cooling



Heating

AUTO operation

- When you set the air conditioner in AUTO mode, it will automatically select cooling, heating(cooling/heating models only), or fan only operation depending on set temperature and the room temperature.
- The air conditioner will control room temperature automatically to the temperature point you set.
- If you feel uncomfortable in the AUTO mode, you can set your desired temperature.

SLEEP operation

When you push SLEEP button on remote controller during cooling, heating(cooling & heating models only), or AUTO operation , the air conditioner will automatically increase (cooling) or decrease (heating) 1℃/2℉ per hour for the first 2 hours, then hold steadily for the next 5 hours, after that it will switch off. This mode saves you energy and brings you comfort at night.

DRYING operation

- The fan speed will be automatically controlled under dry operation.
- During the dry operation, if the room temperature is lower than 10°C(50°F), the compressor stops operation and restarts until the room temperature is above 12°C(54°F).

Optimal operation

- To achieve optimal performance, please note the following:
- Adjust the air flow direction correctly so that it is not forwards people.
- Adjust the temperature to achieve the highest comfort level. Do not adjust the unit to excessive temperature levels.
- Close doors and windows on COOL or HEAT modes, or performance may be reduced.
- Use TIMER ON button on the remote controller to select a time you want to start your air conditioner.
- Do not put any object near air inlet or air outlet, as the efficiency of the air conditioner may be reduced and the air conditioner may stop running.
- Clean the air filter periodically, otherwise cooling or heating performance may be reduced.
  Do not operate unit with horizontal louvre in closed position.

Care and Maintenance

Cleaning the Grille, Case and Remote Controller

Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

NOTE: Power supply must be disconnectd before cleaning the indoor unit.

⚠ CAUTIONS

- A cloth dampened with cold water may be used on the indoor unit if it is very dirty. Then wipe it with a dry cloth.
- Do not use a chemically treated cloth or duster to clean the unit.
- Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.
- Never use water hotter than 40°C/104°F to clean the front panel, it could cause deformation of discoloration.

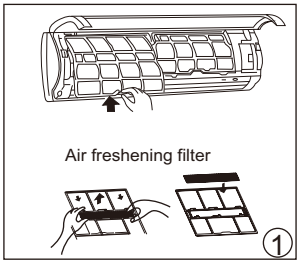
Cleaning the air filter

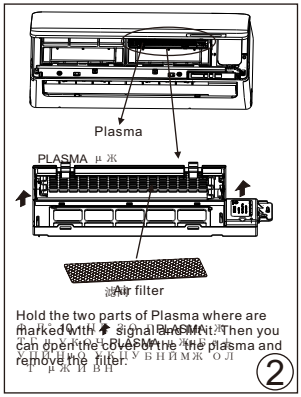
NOTE: Power supply must be disconnectd before cleaning the indoor unit.

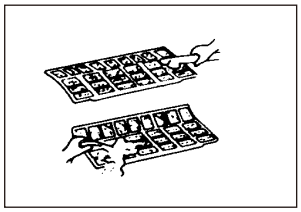
A clogged air filter reduces the cooling efficiency of this unit. Please clean the filter once every 2 weeks.

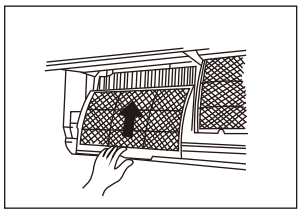
1. Lift the indoor unit panel up to an angle until it stops with a clicking sound.For some models, please use suspension bars to prop up the panel.
2. Take hold of the handle of the air filter and lift it up slightly to take it out from the filter holder, then pull it downwards.
3. Remove the AIR FILTER from the indoor unit. Clean the AIR FILTER once two weeks. Clean the AIR FILTER with a vacuum cleaner or water, then dry it up in cool place.

CARE AND MAINTENANCE




Plasma
PLASMA
Air filter
Hold the two parts of Plasma where are marked with ↑ signal and PLASMA. Then you can open the cover of the the plasma and remove the filter.
②





4. Remove the Air Freshening Filters from its supporting frame (The solution to disassemble may differ from each other for different filters. Refer to ① and ②). Clean the air freshening filter at least once a month, and replace it every 4-5 months.
   Clean it with vacuum cleaner, then dry it in cool place.
   ⚠ For the models with plasma, do not touch the plasma within 10 minutes after you open the panel.
5. Install the air freshening filter back into position.
6. Insert the upper portion of air filter back into the unit, taking care that the left and right edges line up correctly and place filter into position.

Maintenance

If you plan to not use the unit for a long time, perform the following:

(1) Clean the indoor unit and filters.
(2) Operate the fan for about half a day to dry the inside of the unit.
(3) Stop the air conditioner and disconnect power.
(4) Remove the batteries from the remote controller.
The outdoor unit requires periodic maintenance and cleaning. Do not attempt to do this yourself. Contact your dealer or service provider.

Checks before operation

- Check that the wiring is not broken off or disconnected.
- Clean the indoor unit and filters.
- Check that the air filter is installed.
- Check if the air outlet or inlet is blocked after the air conditioner has not been used for a long time.

⚠ Caution

- Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
- Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
- When cleaning the unit, first make sure that the power and circuit breaker are turned off.
- Do not wash with hot water at more than 40 . Shake off moisture completely and dry it in the shade; do not expose it directly to the sun.The filter may shrink.

The following events may occur during normal operation.

1. **Protection of the air conditioner.**

Compressor protection

- The compressor can't restart for 3 minutes after it stops.

Anti-cold air (Cooling and heating models only)

- The unit is designed not to blow cold air on HEAT mode, when the indoor heat exchanger is in one of the following three situations and the set temperature has not been reached.
  A) When heating has just started.
  B) Defrosting.
  C) Low temperature heating.
- The indoor or outdoor fan stop running when defrosting (Cooling and heating models only).

Defrosting (Cooling and heating models only)

- Frost may be generated on the outdoor unit during heat cycle when outdoor temperature is low and humidity is high resulting in lower heating efficiency of the air conditioner.
- During this condition air conditioner will stop heating operation and start defrosting automatically.
- The time to defrost may vary from 4 to 10 minutes according to the outdoor temperature and the amount of frost built up on the outdoor unit.

2. **A white mist coming out from the indoor unit**

- A white mist may generate due to a large temperature difference between air inlet and air outlet on COOL mode in an indoor environment that has a high relative humidity.
- A white mist may generate due to moisture generated from defrosting process when the air conditioner restarts in HEAT mode operation after defrosting.

3. **Low noise of the air conditioner**

- You may hear a low hissing sound when the compressor is running or has just stopped running. It is the sound of the refrigerant flowing or coming to a stop.
- You can also hear a low "squeak" sound when the compressor is running or has just stopped running. This is caused by heat expansion and cold contraction of the plastic parts in the unit when the temperature is changing.
- A noise may be heard due to louver restoring to its original position when power is turned on.

4. **Dust is blown out from the indoor unit.**

This is a normal condition when the air conditioner has not been used for a long time or during first use of the unit.

5. **A peculiar smell comes out from the indoor unit.**

This is caused by the indoor unit giving off smells permeated from building material, from furniture, or smoke.

6. **The air conditioner turns to FAN only mode from COOL or HEAT (For cooling and heating models only) mode.**

When indoor temperature reaches the temperature setting on air conditioner, the compressor will stop automatically, and the air conditioner turns to FAN only mode. The compressor will start again when the indoor temperature rises on COOL mode or falls on HEAT mode (For cooling and heating models only) to the set point.

7.**The air conditioner runs Anti-mildew function after turning off the unit.**

When turning off the unit under COOL(AUTO COOL, FORCED COOL) and DRY mode,the air conditioner will run Anti-mildew function for 7-10 minutes, then stop the operation and turn off the unit automatically.

OPERATION TIPS

8. Dripping water may generate on the surface of the indoor unit when cooling in a high relatively humidity (relative humidity higher than 80%). Adjust the horizontal louver to the maximum air outlet position and select HIGH fan speed.

9. **Heating mode (For cooling and heating models only)**
The air conditioner draws in heat from the outdoor unit and releases it via the indoor unit during heating operation. When the outdoor temperature falls, heat drawn in by the air conditioner decreases accordingly. At the same time, heat loading of the air conditioner increases due to larger difference between indoor and outdoor temperature. If a comfortable temperature can't be achieved by the air conditioner, we suggest you use a supplementary heating device.

10. **Auto-restart function**
- Power failure during operation will stop the unit completely.
- For the unit without Auto-restart feature, when the power restores, the OPERATION indicator on the indoor unit starts flashing. To restart the operation, push the ON/OFF button on the remote controller. For the unit with Auto-restart feature, when the power restores, the unit restarts automatically with all the previous settings preserved by the memory function.

11. Lightning or a car wireless telephone operating nearby may cause the unit to malfunction. Disconnect the unit with power and then re-connect the unit with power again. Push the ON/OFF button on the remote controller to restart operation.

Troubleshooting Tips

If one of the following faults occurs, stop the air conditioner immediately, disconnect the power and then connect it in again. If the problem still exists, disconnect the power and contact the nearest customer service center.	
Trouble	OPERATION indicator or other indicators continue flashing.
	Fuse blows frequently or circuit breaker trips frequently.
	Other objects or water fall into the air conditioner.
	The remote controller won't work or works abnormally.
	If one of the following code appears on the display area : E0,E1,E2,E3.....or P0,P1,P2,P3.....

Malfunctions	Cause	What should be done?
Unit does not start	Power cut	Wait for power to be restored.
	Unit may have become Unplugged.	Check that plug is securely in wall receptacle.
	Fuse may have blown.	Replace the fuse.
	Battery in Remote controller may have been exhausted.	Replace the battery.
	The time you have set with timer is incorrect.	Wait or cancel timer setting.
Unit not cooling or heating (Cooling/ heating models only) room very well while air flowing out from the air conditioner	Inappropriate temperature setting.	Set temperature correctly. For detailed method please refer to "Using remote control" section.
	Air filter is blocked.	Clean the air filter.
	Doors or Windows are open.	Close the doors or windows.
	Air inlet or outlet of indoor or outdoor unit has been blocked.	Clear obstructions away first, then restart the unit.
	Compressor 3 minutes protection has been activated.	Wait.
If the trouble has not been corrected, please contact a local dealer or the nearest customer service center. Be sure to inform them of the detailed malfunctions and unit model number.		

Notes: Do not attempt to repair the unit yourself.
Always consult an authorized service provider.

ROOM AIR CONDITIONER INSTRUCTION

Remark per EMC Directive 89/336/EEC
To prevent flicker impressions during the start of the compressor (technical process) following installation conditions do apply:

1. The power connection for the air conditioner has to be done at the main power distribution. This distribution has to be of an low impedance. Normally, the required impedance is reached at a 32A fusing point. Air conditioner fuse has to be 16A max!
2. No other equipment has to be connected to this power line.
3. For detailed installation acceptance, please refer to your contract with the power supplier.
   If restrictions do apply for products like washing machines, air conditioners or electrical ovens.
4. For power details of the air conditioner refer to the rating plate of the product.

CONSIGINES D'INSTALLATION RACCORDEMENT ELECTRIQUE

Remarques relatives à la Directive EMC 89/336/CEE
Pour eviter les phénormènes de scintillements(variation de lumière) et les parasites lors du démmarrage du compresseur, respecter les consignes d'installation décrites dans le mode d'emploi.

1. Le raccordement au secteur doit être-fait à l'aide d'un cable de section suffisante pour eviter tout échauffement de celui-ci et les chutes de tension (section recommandée 3x4mm²)
   Cette ligne doit être protégée par un fusible ou disjoncteur de 16A
2. Aucun autre appareil ne doit être connecté sur cette ligne.
3. En cas de doute ou de difficulté contactez votre agence EDF. Vériflez qu'il nexiste pas de contraintes particulères pour l'instalation et l'utilisation de ce climatiseur.
4. Pour les caractéristiques de l'appareil référez vous à sa plaque signalétique.

INSTRUCCIONES DE INSTALACION DEL AIRE ACONDICIONADO

Comentario de la Directiva 89/336 EEC de la EMC.
ára prevenir la sensación de golpeteo al arrancar el compresor(procesotécnico) debe aplicar las siguientes instrucciones de instalación

1. La conexión del aire acondicionado a la corriente eléctrica tiene que ser hecha a la distribución principal de energía. Esta distribución tiene que ser de baja impedancia. Normalmente, la impedancia requerida se alcanza en el punto de fusión de 32A. El fusible del aire acondicionado tiene que ser de 16A máximol.
2. Ningún otro equipo debe ser conectado a esta línea eléctrica.
3. Para normas detalladas de instalación por favor consulte el contrato con su suministador eléctrico, si tiene que aplicar restricciones para productos como lavadoras, aire acondicionado u homos eléctricos.
4. Para detalles sobre las alimentación eléctrica del aire acondicionado consulte la placa de datos del aparato.

ANWEISUNGEN ZUR INSTALLATION DER RAUM-KLIMAANLAGE

Hinweis entsprechend EMV-Direktive 89/336/EEC
Um einen "Flicker-Effekt" beim Anlauf des Kompressors (kurzzeitiger Spannungseinbruch, technischer Vorgang) zu vermeiden, muß für folgende installationsbedingungen gesorgt sein. (siche auch "Anweistingen zur installation.")

1. Der Stromanschluß für die Klimpaanlage muß am Hauptverteller vorgenommen werden. Die Abzweigung muß mit niedriger Impedanz ausgeführt werden. Normalerweise ist die erforderliche niedrige impedanz bei einem Sicherungsanschlußpunkt von 32A erreicht.
2. An die gleiche Netzleitung dürfen keine anderen Geräte angeschlossen sein.
3. Seitens der lokaten Energieversorgungsunternehmen bestehen möglicherweise Einschränkungen für Produkte wie Waschmaschinen, Klimaanlagen, elektrische Öfen, etc. Für Einzelheiten zur installation sehen Sie in Ihren Vertrag mit dem Energieversorgungsunternehmen.
4. Einzelheiten über die elektrischen Daten der Kimaanlage ersehen Sie auf dem Typenschild des Gerates.

INSTRUZIONI PER L'INSTALLAZIONE DEL CONDIZIONATORE D'ARIA PER STANZE

NOTA DELLA DIRETTIVA EMC 89/336 EEC
Allo scopo di prevenire l' effetto di FLICKER (variazione della luce) alla partenza del compressore, durante l'installazione seguire I punti sottoelencatl.

1. Il collegamento dell' alimentazione del condizionatore, deve essere fatto con una linea preferenziale direttamente al quadro principale o contatore, e deve essere a bassa impedenza.
   Normalmente questa Impedenza la si ottiene al punto di fusione di 32 A ; perll condizionatore usare un fusibile da 16 A max.
2. Nessun altro apparecchio elettrico dovra essere collegato alla stessa linea di alimentazione.
3. Per maggiori dettagll circa l' accettazione dell' installazione del condizionatore, fare riferimento al contratto con l' Ente erogatore dell' Energla Elettrica e verificare che non ci siano restrizioni in atto all' Installazione di prodottl elettrici ad allo consumo.
4. Per le informazioni relative ai dati di allmentazione del condizionatore, fare riferimento all' etichetta posta sul prodotto.

SAFETY INSTRUCTIONS

PLEASE READ THE FOLLOWING SAFETY INSTRUCTIONS BEFORE INSTALLING AND OPERATING THE UNIT:

This air conditioner meets strict safety and operating standards. The installer of this unit must install or service this unit so it operates safely and efficiently.

IMPORTANT NOTES

- Adhere to all safety instructions and warnings throughout this manual.
- Read this manual carefully before installing or operating this unit to become familiar with its features and obtain the performance that will bring you continued enjoyment for many years.
- Follow each installation or repair step exactly as shown in the manual.
- Observe all local, state and national electric codes. Contact your local government for more information on electrical codes.

The lightning flash with the arrowhead symbol, within an equilateral triangle is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Contact Installer if Necessary:
The installation instructions are for a experienced installer. If you are not an experienced installer, contact a local installer for help. If you require help with service, contact your certified dealer or Turbo-Air Inc. for additional instructions.

If Unit is Installed Improperly:
The manufacturer shall in no way be responsible for improper installation or maintenance service, including failure to follow the instructions in this manual.

WARNING:

- ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. ONLY A QUALIFIED, EXPERIENCED ELECTRICIAN/INSTALLER SHOULD ATTEMPT TO WIRE THIS SYSTEM.
- THE APPLIANCE IS NOT INTENDED FOR USE BY CHILD OR INFIRM PERSONS WITHOUT SUPERVISION.
- YOUNG CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE

Precautions When Wiring:

- Do not plug in the unit until all connections (tubing, drain hose, mounting, etc.) have been made and double-checked.
- High voltages are present in this unit and are very dangerous. Please refer to these instructions and diagrams when wiring. Improper connections or inadequate grounding can cause accidental injury.
- This unit must be grounded in accordance with local electrical codes.
- Connect wires and pipes securely and tightly as loose connections/wiring may cause overheating at connections and a possible fire hazard.

Precautions When Transporting:

- When transporting the unit, be very careful and get help because the units are heavy. Be careful of sharp edges on the units also.

Precautions When Installing:

- **When installing in a ceiling or wall,** make sure the ceiling/wall is strong enough to hold the unit's weight. A frame may be necessary for added support.
- **When installing in a room,** make sure the tubes become well insulated to protect the walls and furniture from sweating of the tubes.
- **When installing in moist or uneven locations,** make sure to use a raised level concrete pad or concrete blocks to provide a level, solid foundation for the outdoor unit; this prevents water damage and vibration.
- **When installing in an area of high winds,** make sure to securely anchor the outdoor unit down with bolts and a metal frame.

When Connecting Refrigerant Tubing:

- Keep all tubing as short as possible.
- Use the flare method for connecting tubing.
- Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them, then tighten , making sure not to overtighten.
- Check the tubes carefully for leaks before starting the test run.

When Servicing:

- Make sure the power is off and the unit is unplugged before opening the unit to troubleshoot or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the sight after you finish, making sure no metal scraps and wiring are left in the unit.
- The Air conditioner shall be installed in accordance with the national wiring regulation.
- The equipment fulfills the requirements in EN 61 000-3-11 and is subject to conditional connection to the mains.
- It may be connected in consultation with the supply authority.
- The equipment may only be connected to a mains supply with a system impedance of less than 0.3 ohm.
- The system impedance in the interface point may be obtained from the supply authority.
- If the mains supply has a higher system impedance, short voltage dips may appear when the equipment is started or during operation.
- This may influence or disturb the operation of other apparatuses, e.g. flickering lamps, especially those connected to the same supply mains.

AIR CONDITIONER MANUFACTURER
Turbo air

AIR CONDITIONER LIMITED WARRANTY STATEMENT
R22 & R410A SYSTEMS

Turbo air Inc. warrants R22 & R410A products conforms to the manufacturers specifications and will be free of defects in material and workmanship and should any defect occur, Turbo air Inc. will correct the defects subject to the following conditions.

PARTS: for a period of **26 months** from said date of sale or **24 months** from said date of installation for the residential installation. For commercial installation **one year.** Turbo air Inc. will supply new, or at its option rebuilt replacement parts.

COMPRESSOR: for a period of **five years** from said date of sale or installation for residential installation. For commercial installation **one year**. Turbo air Inc. will supply new compressor.

REMOTE CONTROL: for a period of **26 months** from said date of sale or **24 months** from said date of installation. Whichever is later, Turbo air Inc. will exchange with a new remote control.

PROOF OF PURCHASE: Copy of the proof of purchase is required to make this warranty valid. Or valid manufacture serial number of unit.

THIS WARRANTY DOES NOT COVER LABOR or:

- Shipping damage.
- System installation.
- Unpacking and/or removal of protective shipping material.
- Usage outside manufacturer's limitations as specified in the owner's manual.
- Service required as a result of improper installation, incorrect or insufficient AC supply voltage.
- Installation, set up, or adjustments of consumer controls.
- Any owner than the original owner.
- Damage from modification or incorporation into other products.
- Any failure, loss, damage or person injury due to accident, neglect, or abuse by the consumer or to improper operation, maintenance or storage or to alteration or to failure to follow normal procedures as outlined in the instruction manual.
- Any unit purchased from an unauthorized dealer, any online retailer or not directly from turbo air.
- Transportation charges incurred in connection with warranty service.
- Indirect, consequential, or special damages, except as required by Federal or State laws.
- Repair or replacement of warranted part by other than qualified installer.

THE WARRANTY AND REMEDY STATED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESSFOR A PARTICULAR PURPOSE. SOME LAWS DO NOT ALLOW EXCLUSION OF IMPLIED WARRANTY, THEREFORE THIS WARRANTY SHALL BE DEEMED MODIFIED TO BE CONSISTENT WITH SUCH LAWS.

Some states do not allow limitation on how long an implied warranty lasts; therefore these limitations or exclusions may not apply to you. This limited warranty gives you specific legal rights. You may also have other rights that may vary from state to state.

This warranty applies to the United States, Canada.

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.

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